



Form GSOP I-PIN (04/98)

STATE OF CALIFORNIA  
Department of General Services - Office of Procurement

## PURCHASE ORDER

Page 1

Purchase Order No. Rev. Date

62318

3/11/2009

|   |                          |  |               |               |
|---|--------------------------|--|---------------|---------------|
| Supplier No.  | Solicitation No.         | Delivery Date  | FOB Point     | Invoice Terms |
| 767230  | 57199                    | 45 Days ARO  | Destination   |               |
| S DEPT. OF TRANSPORTATION<br>h DPAC WAREHOUSE MS-17<br>T<br>i 2001 EVERGREEN STREET<br>o<br>p SACRAMENTO, CA 95815<br>Attn: MITCH MCINTYRE 9163241190 |                          | C DEPT. OF TRANSPORTATION<br>h ASC PAYABLES MS-25<br>a P. O. BOX 168018<br>T r o SACRAMENTO, CA 95816<br>e |               |               |
| Agency Billing  | Agency Purchase Estimate | Purchase Estimate  | Revision      |               |
| 60006   | 22-W1344JW               | 67337  | 1             |               |
| Agency Contact  |                          | Phone  | Date Received |               |
| JOHN WILLIAMS   |                          | 916-227-6031   |               |               |

STAY SAFE STORE  
3941 PARK DR, STE 20#297  
EL DORADO HILLS, CA 95762  
Attn: JIM, ERIN OR KEN SHOEMAKE

Phone: 888-782-7233

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension |
|----------|----------|------|----------------|-------------|------------|-----------|
|----------|----------|------|----------------|-------------|------------|-----------|

THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT:

[www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf](http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf)

THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:

PRIME CONTRACTOR: SB;DVBE

|  |       |    |                 |                  |         |            |
|--|-------|----|-----------------|------------------|---------|------------|
| 1  | 15120 | EA | 9705-001-0009-7 | CONE TRAFFIC 28" | 13.9500 | 210,924.00 |
| 28" Plastic Traffic Cones as described in the attached specification,<br>#9705-0498 of 6 pages, dated November 7, 2008.<br>CT# 9905-0190-0 |       |    |                 |                  |         |            |

Brand: HIGHWAY SAFETY PRODUCTS

Model: 432810\_CTR\_64B

Total Value: 210,924.00

## ATTACHMENTS:

THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER:

1. SPECIFICATION #9705-0498 OF 6 PAGES DATED 11/7/2008
2. PALLET SPECIFICATIONS
3. CALTRANS DELIVERY FORM

## DELIVERY:

For the purpose of this purchase order, only F.O.B. Destination will be accepted.

The 28" traffic cones are to be delivered to the following location:

Department of Transportation  
DPAC Warehouse, M-17  
2001 Evergreen Street  
Sacramento, CA 95815

CHANGE ORDERS: This Purchase Order may be amended, modified, or terminated

Sales and/or use tax to be extra unless noted above

|                  |              |            |
|------------------|--------------|------------|
| Buyer            | Phone        | BOC Number |
| KATHLEEN SANBORN | 916-375-4403 |            |

**Department of General Services - Office of Procurement**

## Form GSOP 2-PIN (04/98)

**Page** 2 (Last)

|                           |                 |             |                     |                      |
|---------------------------|-----------------|-------------|---------------------|----------------------|
| <i>Purchase Order No.</i> | <i>Revision</i> | <i>Date</i> | <i>Supplier No.</i> | <i>Supplier Name</i> |
| <b>62318</b>              |                 | 3/11/2009   | 767230              | STAY SAFE STORE      |

| Item No.   | Quantity | Unit | Commodity Code | Description | Unit Price | Extension |
|--|----------|------|----------------|-------------|------------|-----------|
| <p>at any time by mutual agreement of the parties, in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier</p> |          |      |                |             |            |           |
| <p>This Purchase order has been registered into the state contact and procurement registration system (<a href="https://www.scprs.dgs.ca.gov/">https://www.scprs.dgs.ca.gov/</a>). The registration number is 26600309361741.</p>  |          |      |                |             |            |           |



STATE OF CALIFORNIA  
BID SPECIFICATION  
TRAFFIC CONES WITH SLEEVES

9705-0498

1. SCOPE

- 1.1 This specification covers 712 mm plastic traffic cones designed to provide fluorescent red-orange delineation and cones with an approved two-band (150 and 100mm) reflective sleeve for day and nighttime delineation.

2. APPLICABLE SPECIFICATIONS / STANDARDS

- 2.2 Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid, form a part of this specification.
- 2.3 All cones supplied shall meet the NCHRP (National Cooperative Highway Research Project) Report 350 Criteria for Category 1 devices. Supplier shall provide self-certification upon request to the Transportation Laboratory.

3. REQUIREMENTS

**Material**

- 3.1 Cone Only: The conical section of the traffic cones shall be composed of a polyvinyl chloride compound. The minimum thickness of this layer shall be the maximum required thickness of the conical section. The bottom layer of the base shall be composed of a high-density weighted polyvinyl chloride or molded rubber. This layer shall be securely and permanently bonded to the bottom end of the conical section. The conical section may be either standard as shown in the Figure 2 "Fluorescent Plastic Traffic Cones" or recessed for protection of the reflective sleeves.
- 3.2 Cone with Reflective Sleeve: The cone shall be made with the same material as described in Paragraph II.A.1, except it shall have a two-band (6 and 4 inch) reflective sleeve permanently bonded to it. The reflective sleeve shall meet the photometric requirements below and shall be bonded to the cone with a water-based or pressure sensitive adhesive. After bonding onto the cone, the sleeve shall be free of wrinkles.
- Sleeve material shall meet specification requirements in ASTM Designation: D 4956, for Type III or Type VI sheeting.

**Workmanship**

- 3.3 Traffic cones shall exhibit good workmanship and shall be free of burns, discoloration, streaks, runs, air bubbles and other objectionable marks or defects which effect appearance and serviceability. The inner and outer surfaces of the conical portion, above the base, shall be smooth; bumps, ridges or voids at any location shall be cause for rejection.

**Color**

- 3.4 The outer layer of the conical section shall be a bright fluorescent red-orange when tested according to ASTM Designation: E-991 and plotted on the CIE chromaticity chart with chromaticity coordinates as given in Table I.

| X       | Y     |
|---------|-------|
| 0.480   | 0.360 |
| 0.529   | 0.310 |
| 0.610   | 0.390 |
| 0.690   | 0.310 |
| TABLE I |       |

**Stacking**

- 3.5 Cones when stacked shall nest neatly, separate easily and shall be compatible with the referenced brand cones and be manufactured to the dimensions specified on Figure 2 "Fluorescent Plastic Traffic Cones".

**Base**

- 3.6 Cone base shall have cleats with minimum dimensions as shown on Figure 2 "Fluorescent Plastic Traffic Cones with Sleeves".

**Identification and Ink Adhesion Test**

- 3.7 "CALTRANS" shall be imprinted vertically on the conical section in 13-16 mm letters. The top of the uppermost letter shall be positioned a minimum of 430mm from the top of the cone. The method of application shall produce neat, easily read, permanent lettering that cannot be removed without damaging the cone.

Apply a 3M Company Scotch Brand, number 600, cellophane tape over several of the inked letters. Use the eraser end of a pencil and rub gently to ensure that the tape is bonded securely to the cone. Pull tape back upon itself (180 degrees) and in a smooth even movement remove the tape. The lettering shall remain visible and readable upon the cone.

**Quality Control**

- 3.8 Bidder shall submit with their bid or within five (5) days upon request by the state a quality control program in writing which should address the following as a minimum:
- 3.8.1 Policy/procedure on monitoring quality of incoming materials.
  - 3.8.2 Type and frequency of tests performed. Maintenance and availability of test records.
  - 3.8.3 Name and title of person responsible for quality control function.

**Inspection**

- 3.9 Traffic cones shall be sampled and tested by the Department of Transportation (DOT), Engineering Services, Materials Engineering and Testing Services. Sampling will be prior to shipment or at the point of delivery, at the option of the State.

An official sample of traffic cones shall consist of four randomly selected cones representing lot quantities  $\leq 4,000$  units. For lots  $> 4,000$  units, one additional cone shall be sampled for each additional 1,000 cones or fraction thereof.

Material not meeting specifications will be rejected. Time required for testing shall be  $\leq 30$  days.

By request, the State shall have free entry at all times to such parts of the manufacturer's plant related to production or quality control of traffic cones. All quality control test results shall be made available to the DOT inspector.

**Tolerance**

- 3.10 100% of the original official sampling of each lot of cones shall comply with all requirements.

**4. DIMENSIONS AND PHYSICAL PROPERTIES**

- 4.1 Cones shall be manufactured to the dimensions specified on Figure 2 "Fluorescent Plastic Traffic Cones with Sleeves" and the dimensions given in Table II.
- 4.2 Tensile strength of the joint where the conical portion of the cone joins the base shall be  $\geq 1.2\text{Kg}$  per mm of width. See Test Note E.

|  |   |
|--|---|
| Total Height:                                      | 712 ± 12 mm                               |
| Total Mass:  | ≥4.54 Kg                                  |
| Mass of Base:                                      | ≥2.95 Kg                                  |
| Wall Thickness (Test Note #B):                     | ≥2.54 mm (Top & Middle) ≥2.84 mm (Bottom) |
| Tensile Strength (Test Note #C):                   | ≥8.3MPa                                   |
| Elongation (Test Note #C):                         | ≥200%                                     |
| Tensile Stress @200% elongation (Test Note C):     | ≥6.9 MPa                                  |
| Hardness, Shore A2, Conical Section (Test Note D): | 80±10                                     |
| TABLE II   |   |

#### Fold Test

- 4.3 Place cone in normal position on a flat and level surface and fold at a point near the middle of its vertical height. Hold the upper tip of the cone for ten seconds in a position immediately adjacent to the base and touching the surface upon which the base is resting. When released, the cone shall return to its original vertical position in ≤15 seconds.

#### Heat Resistance

- 4.4 Suspend a 1.36 KG weight inside the conical section of the traffic cone utilizing a wire attached to the center of a flat metal disc spanning and resting upon top of the cone. Place weighted cone in an upright position in a preheated air circulating 82° C oven. After 1 hour, cone shall not exhibit significant slump or sag.

#### Cold Resistance

- 4.5 Cones, shall be conditioned a minimum of 2 hours at -17°C in an environmentally controlled test chamber. A steel ball weighing 0.91 Kg shall be dropped a distance of 1.5m through a virtually frictionless vertical guide to impact the surface of the cone. The surface of the cone being struck by the steel ball shall be in a horizontal position supported by one edge of the cone's base and held in position by a support at the narrow or top end of the cone. The cones shall be subjected to three impact tests spaced ≥150 mm apart. Fracturing, cracking or splitting of conical section and/or base shall constitute failure.

#### Color Fastness

- 4.6 The exterior side of a coupon cut from the cone shall be exposed for 500 hours in accordance with ASTM Designation: G 155, Table X3.1, Cycle 1 in a Xenon Arc Light Apparatus. Test specimen shall meet the color requirements of Section II.C of this specification.

#### Base bend test

- 4.7 Remove the base of the cone by cutting the conical section at its junction with the top surface of the base. Bend the base 180° around a rigidly mounted round mandrel with the upper surface of the base adjacent to the mandrel and clamp base securely in that position. The diameter of the mandrel shall be 50mm. Two minutes after clamping base into 180° bend position, examine base for failure represented by splitting or tearing. If no failure has occurred, a knife cut 0.76 mm deep shall be made on the outside radius of the bend and parallel with the longitudinal axis of the mandrel. Wait two minutes after making knife cut and examine. Failure is represented by tearing of the base material more than 2.5 mm beyond dept of cut.

## 5. TEST NOTES

- A. Unless otherwise indicated, all tests shall be performed on samples conditioned a minimum of 40 hours at  $\pm 2^{\circ}\text{C}$  and  $50 \pm 5\%$  relative humidity.
- B. Wall thickness shall be measured on the conical section 25 to 75 mm from the base, 25 to 75 mm from the top, and at the middle.
- C. Tensile strength, elongation and tensile stress shall be determined on the conical section of the cone only, in accordance with ASTM Designation: D 638. The test specimens shall be Type IV. The rate of jaw separation shall be 500 mm per minute.
- D. Hardness shall be determined in accordance with the ASTM Designation: D 2240. The durometer shall be Type A2, with a total weight of 2 Kg centered on the axis of the indenter. The scale shall be read 15 seconds after the pressure foot is in firm contact with test specimen.
- E. Three reduced section test specimens shall be cut from each cone to be tested. The reduced section shall be a neatly trimmed 50 mm width at the joint between cone and base. Length of test specimen will vary depending on size of cone being tested but in all cases the length must be sufficient to permit clamping ends of specimen in standard textile jaws or other suitable grips of a tensile test machine. Test machine shall be capable of maintaining the specified jaw separation rate of 150 mm per minute. Divide the total load required to separate the specimen by the area of the PVC section at the joint. Report the average of the three tests.

## 6. PACKAGING FOR 700 MM CONES

- 6.1 712 mm cones are not be packaged in cartons. Ninety (90) cones shall be placed on 44"x44" or 45"x45" wooden pallets of good condition and secured as shown in Figure 1. The reinforced plastic strapping used shall be  $\geq 20$  mm wide.

After cones have been stacked on pallet, base portion of cones must be plastic wrapped to minimize shifting while in transit and have a black plastic pallet cover placed over cones to protect them from fading due to sun exposure while being stored outside. To prevent damage to the cones, pallets shall not be stacked.

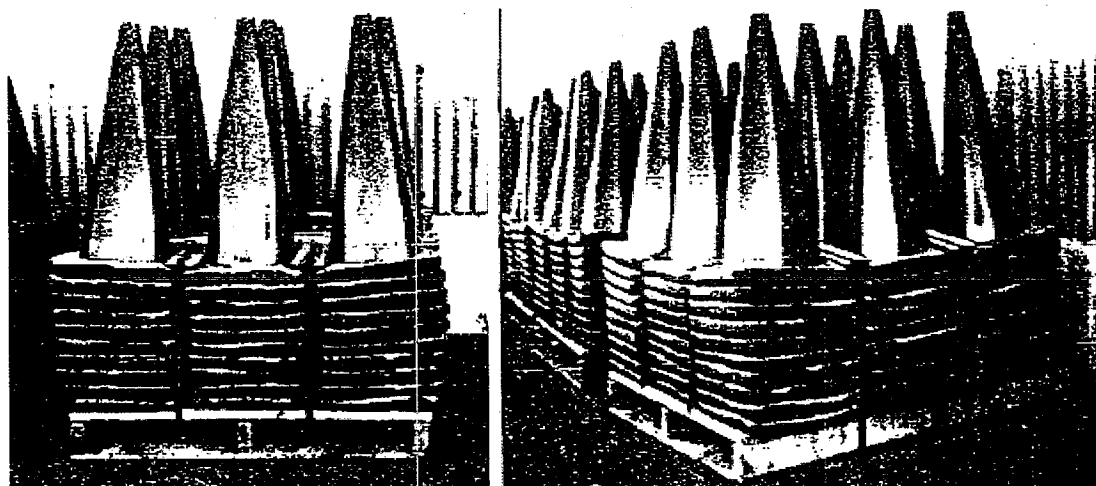
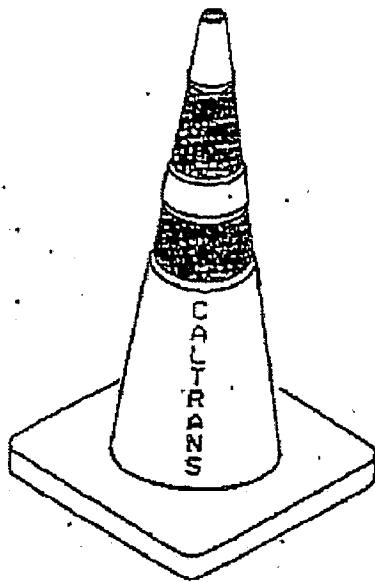
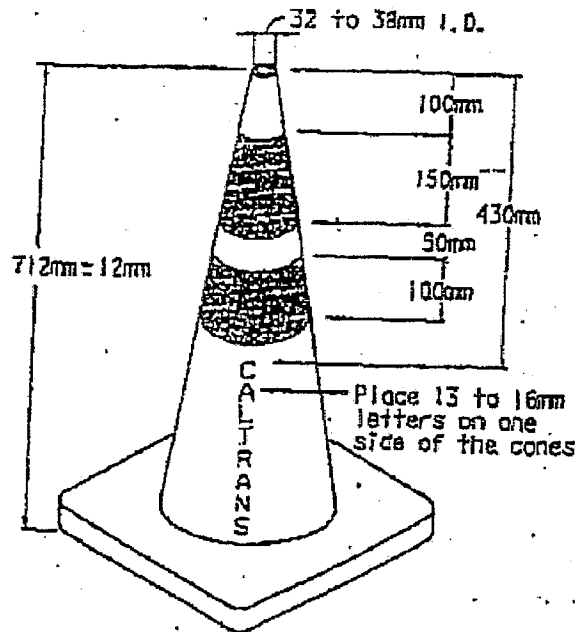


FIGURE 1: PACKAGING FOR PLASTIC TRAFFIC CONES

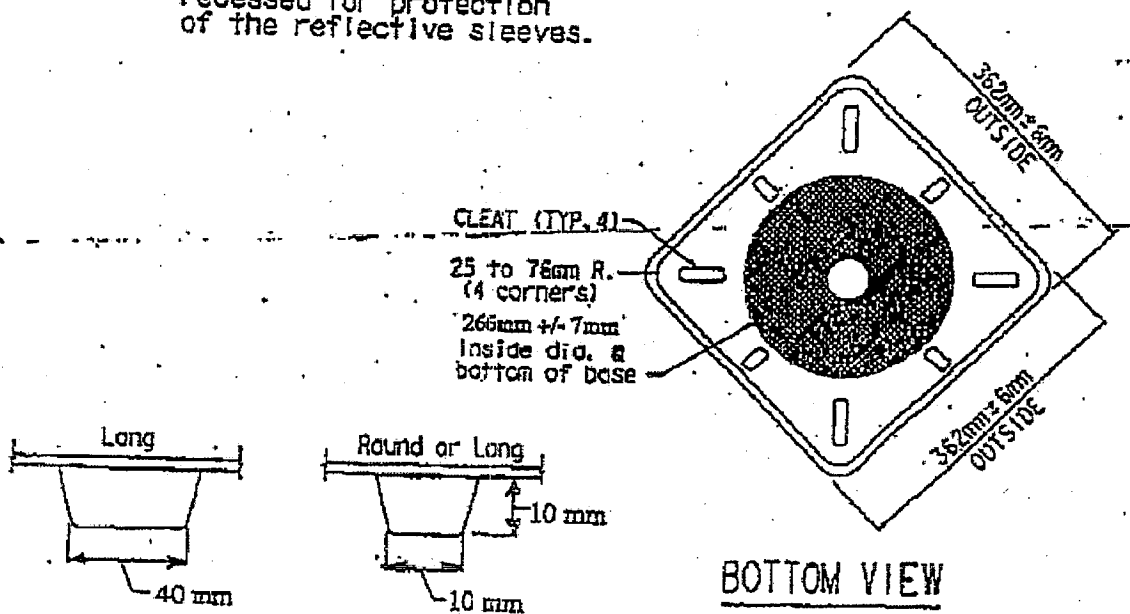


### RECESSED

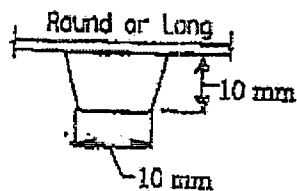
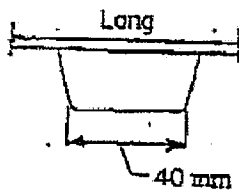
The conical section may be either standard or recessed for protection of the reflective sleeves.



### STANDARD



### CLEAT DETAILS



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
OFFICE OF BUSINESS MANAGEMENT  
MATERIAL OPERATIONS

FIGURE 2: FLUORESCENT PLASTIC TRAFFIC CONES WITH SLEEVES

## STATE OF CALIFORNIA SPECIFICATION PALLETES, WOODEN

### 1 SCOPE

This specification covers pallets intended for use with low lift pallet trucks or forklift trucks.

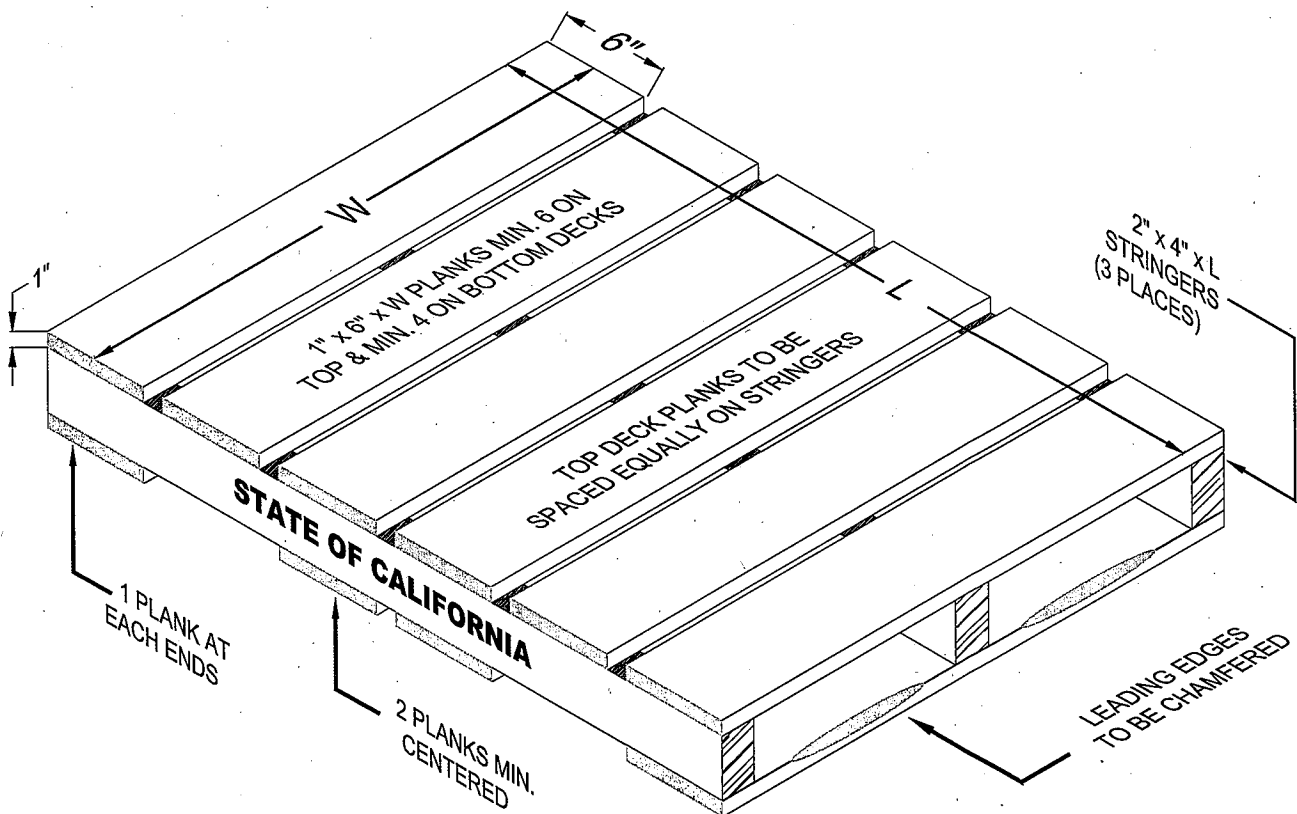
### 2 SPECIFICATION AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced.

### 3 REQUIREMENTS

#### 3.1 Material

The pallets shall be constructed from nominal size standard or better (West Coast Lumber Inspection Bureau, Standard Grading Rules for West Coast Lumber) grade Douglas Fir, Hemlock, Larch or Hem-Fir. The stringers shall be S4S and the decking S4S or S1S2E (re-sawn) with no edge knots. Sawed side is to be assembled to the inside of the pallets. Fastening shall be



**FIG. 1 - TYPE 2  
WOODEN PALLET**



| COMMONLY USED PALLET TYPES & SIZE                                    |            |  |  |
|--|------------|--|--|
| SIZE   | TYPE       | TOP DECK   | BOTTOM DECK  |
| 1  | 2 (Fig. 1) | 42"L x 36"W<br>Six 1" x 6" x 36" deck-boards, spaced evenly along the pallet width   | 42"L x 36"W<br>Min. Four 1" x 6" x 36" boards.<br>One placed each end of the stringers<br>Two at center of the stringers         |
| 2  | 2 (Fig. 1) | 42"L x 42"W<br>Six 1" x 6" x 42" deck-boards, spaced evenly along the pallet width   | 42"L x 42"W<br>Min. Four 1" x 6" x 42" boards.<br>One placed each end of the stringers<br>Two at center of the stringers         |
| 3  | 2 (Fig. 1) | 44"L x 44"W<br>Six 1" x 6" x 44" deck-boards, spaced evenly along the pallet width   | 44"L x 44"W<br>Min. Four 1" x 6" x 44" boards.<br>One placed each end of the stringers<br>Two at center of the stringers(Fig. 1) |
| 4  | 2 (Fig. 1) | 45"L x 36"W<br>Six 1" x 6" x 36" deck-boards, spaced evenly along the pallet width   | 45"L x 36"W<br>Min. Four 1" x 6" x 36" boards.<br>One placed each end of the stringers<br>Two at center of the stringers         |
| 5  | 2 (Fig. 1) | 46"L x 44"W<br>Six 1" x 6" x 44" deck-boards, spaced evenly along the pallet width   | 46"L x 44"W<br>Min. Four 1" x 6" x 44" boards.<br>One placed each end of the stringers<br>Two at center of the stringers         |
| 6  | 2 (Fig. 1) | 48"L x 48"W<br>Six 1" x 6" x 48" deck-boards, spaced evenly along the pallet width   | 48"L x 48"W<br>Min. Four 1" x 6" x 48" boards.<br>One placed each end of the stringers<br>Two at center of the stringers         |
| <b>Note:</b> SIZE 1, TYPE 4 - has a single wing applied to top deck. |            |  |  |
| 1  | 4 (Fig. 2) | 42"L x 36"W<br>Six 1" x 6" x 36" deck-boards, spaced evenly along the pallet width with 3" wings extending beyond the stringers outboard faces | 42"L x 30"W<br>Min. Four 1" x 6" x 36" boards.<br>One placed each end of the stringers, Two at center of the stringers           |

#### 4 SAMPLING AND INSPECTION

This commodity will be sampled and inspected for compliance to this specification as deemed necessary. Sampling and inspection by attributes will be in accordance with ANSI/ASQ Z1.4 1993, Sampling Procedures and Tables for Inspection by Attributes. An inspection lot is defined as one delivery to one agency at one time.

##### 4.1 Workmanship

The pallets shall be free from defects as outlined under Grade "Quality" (QAL) in the "Specifications and Grades", NWPCA.

#### 5 MARKING

Each pallet shall be marked (two places), "STATE OF CALIFORNIA". Marking shall be easily readable, in black letters and on outboard faces of stringers.

To: Caltrans DPAC Warehouse-Receiving

From: \_\_\_\_\_

Phone(\_\_\_\_)\_\_\_\_\_ Fax(\_\_\_\_)\_\_\_\_\_

Caltrans PO#: \_\_\_\_\_

Expected Arrival Date: \_\_\_\_\_

Date Shipped: \_\_\_\_\_

Carrier: \_\_\_\_\_

Please contact the Warehouse by Phone (916) 263-0463 or by fax at (916) 263-0871 at least 48 hours in advance to schedule a deliver time. Unscheduled deliveries are subject to rejection.

The Warehouse accepts deliveries from 7 a.m. to 12 noon and 12:30 to 3:00 p.m. Monday-Friday except for State holidays.